

6AR11

Semiremote-Cutoff Twin Pentode

DUODECAR TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (*Design-Maximum Values*):

Voltage (AC or DC) 6.3 ± 0.6 volts

Current at heater volts = 6.3 0.800 amp

Peak heater-cathode voltage

(Each unit):

Heater negative with
respect to cathode. 200 max. volts

Heater positive with
respect to cathode. 200^a max. volts

Direct Interelectrode Capacitances:^b

Unit No. 1:

Grid No. 1 to plate. 0.026 pf

Grid No. 1 to cathode, grid No. 2,
grid No. 3 & internal shield,
and heater. 10 pf

Plate to cathode, grid No. 2, grid
No. 3 & internal shield, and heater 2.8 pf

Unit No. 2:

Grid No. 1 to plate. 0.026 pf

Grid No. 1 to cathode, grid No. 2,
grid No. 3, grid No. 3 of unit No. 1
& internal shield, and heater . . 10 pf

Plate to cathode, grid No. 2,
grid No. 3, grid No. 3 of unit No. 1
& internal shield, and heater. . . 3.0 pf

Plate of unit No. 1 to plate
of unit No. 2. 0.02 max. pf

Grid No. 1 of unit No. 1 to plate of
unit No. 2 0.002 max. pf

Grid No. 1 of unit No. 2 to plate
of unit No. 1. 0.002 max. pf

Characteristics, Class A₁ Amplifier (Each Unit):

Plate Supply Voltage. 125 volts

Grid No. 3 *Connected to cathode at socket*

Grid-No. 2 Supply Voltage. 125 volts

Cathode Resistor. 56 ohms

Plate Resistance (Approx.). 0.2 megohm

Transconductance. 10500 μ mhos

Plate Current 11 ma

Grid-No. 2 Current 3.5 ma

Grid-No. 1 Voltage (Approx.) for
transconductance (μ mhos) = 50 -15 volts

Mechanical:

Operating Position. Any

Type of Cathodes. Coated Unipotential

Maximum Overall Length. 1.875"



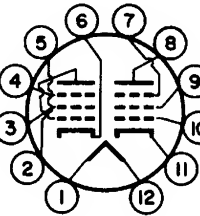
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Harrison, N. J.

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Seated Length 1.250" to 1.500"
 Diameter 1.062" to 1.188"
 Bulb. T9
 Base. Small-Button Duodecar 12-Pin (JEDEC No.E12-70)
 Basing Designation for BOTTOM VIEW. 12DM

Pin 1-Heater	Pin 8-Plate of Unit No.1
Pin 2-Plate of Unit No.2	Pin 9-Grid No.2 of Unit No.1
Pin 3-Grid No.2 of Unit No.2	Pin 10-Grid No.1 of Unit No.1
Pin 4-Grid No.3 of Unit No.2	Pin 11-Cathode of Unit No.1
Pin 5-Grid No.1 of Unit No.2	Pin 12-Heater
Pin 6-Cathode of Unit No.2	
Pin 7-Grid No.3 of Unit No.1, Internal Shield	



AMPLIFIER — Class A₁

Values are for Each Unit

Maximum Ratings, Design-Maximum Values:

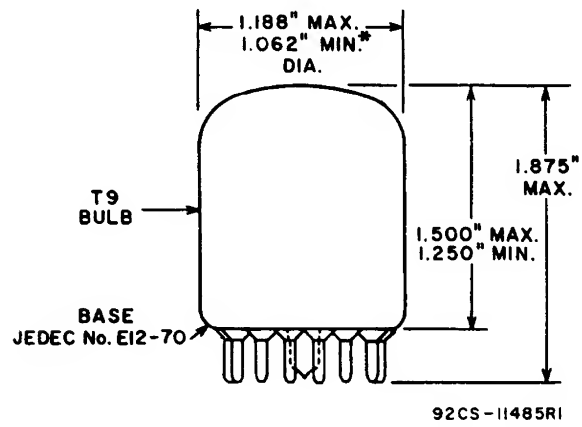
PLATE VOLTAGE 330 max. volts
 GRID No.3 (SUPPRESSOR GRID) . . .Connect to cathode at socket
 GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE . . 330 max. volts
 GRID-No.2 VOLTAGE See Grid-No.2 Input Rating Chart at front of Receiving Tube Section
 GRID-No.1 (CONTROL-GRID) VOLTAGE:
 Positive-bias value 0 max. volts
 GRID-No.2 INPUT:
 For grid-No.2 voltages up to 165 volts . 0.65 max. watt
 For grid-No.2 voltages between 165 and 330 volts See Grid-No.2 Input Rating Chart at front of Receiving Tube Section
 PLATE DISSIPATION 3.1 max. watts

^a The dc component must not exceed 100 volts.

^b With external shield JEDEC No.309 connected to cathode of unit under test.



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* APPLIES TO MINIMUM DIAMETER EXCEPT IN AREA OF SEAL.



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